

# OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

VOLUME VI

NUMBER 15

## ANNOUNCEMENT OF THE COLLEGE OF ARCHITECTURE 1915-16

AUGUST 1, 1915  
PUBLISHED BY CORNELL UNIVERSITY  
ITHACA, NEW YORK





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This announcement is intended to give detailed information to prospective students in the College of Architecture at Cornell University.

For general and detailed information concerning the requirements for admission, tuition and other charges, scholarships and fellowships, cost of living, etc., the General Circular of Information should be consulted. This and the other official publications of the University are listed on the back cover of this pamphlet. Any of the informational publications there mentioned will be sent gratis and post-free upon application to the Secretary of Cornell University, Ithaca, New York.

## CALENDAR

### First Term 1915-16

Sept. 17,	Friday,	Entrance examinations begin.
Sept. 27,	Monday,	Academic year begins. Registration of new students. Scholarship examinations begin.
Sept. 28,	Tuesday,	Registration of new students.
Sept. 29,	Wednesday,	Registration of old students.
Sept. 30,	Thursday,	Instruction begins. President's annual address to the students.
Oct. 2,	Saturday,	Registration, Graduate School.
Oct. 19,	Tuesday,	Last day for payment of tuition.
Nov.		Thanksgiving Recess.
Dec. 22,	Wednesday,	Instruction ends.
Jan. 6,	Thursday,	Instruction resumed. } Christmas Recess.
Jan. 11,	Tuesday,	Founder's Day.
Jan. 29,	Saturday,	Instruction ends.
Jan. 31,	Monday,	Term examinations begin.

### Second Term 1915-16

Feb. 12,	Saturday,	Registration, Undergraduates.
Feb. 14,	Monday,	Registration, Graduate School.
Feb. 14,	Monday,	Instruction begins.
Mar. 3,	Friday,	Last day for payment of tuition.
April 5,	Wednesday,	Instruction ends.
April 13,	Thursday,	Instruction resumed. } Spring Recess.
May 27,	Saturday,	Navy Day.
June 7,	Wednesday,	Term examinations begin.
June 21,	Wednesday,	Commencement.

# COLLEGE OF ARCHITECTURE

## FACULTY

Jacob Gould Schurman, A.M., D.Sc., LL.D., President.

Clarence Augustine Martin, Dean of the College of Architecture, and Professor of Architecture.

Olaf Martinus Brauner, Professor of Drawing and Painting.

Georges Mauxion, A.D.G., Professor of Architecture, in charge of Design. Absent on leave.

Albert Charles Phelps, B.S., M.Arch., Professor of Architecture and Secretary of the Faculty of Architecture.

E. Raymond Bossange, Ph.B., Professor of Design.

Ely Jacques Kahn, A.B., B.Arch., A.D.G., Acting Professor of Design.

George Young, Jr., B.Arch., Professor of Architecture, in the Theory of Construction.

Christian Midjo, Assistant Professor of Freehand Drawing and Modeling.

LeRoy P. Burnham, B.S.Arch., M.S.Arch., Assistant Professor of Design.

George Ray Chamberlain, M.E., Assistant Professor of Freehand Drawing.

Hiram Samuel Gutsell, B.P., A.M., Instructor in Freehand Drawing.

Hubert E. Baxter, B.Arch., Instructor in Architecture.

Edward M. Urband, B.Arch., M.Arch., Instructor in Architecture.

Lorena Claire Gibbs, Secretary to the Dean.

Ellen Irene Steele, Librarian.

Students in the College of Architecture receive instruction also from a large corps of professors and instructors in the Colleges of Arts and Sciences, Civil Engineering, Mechanical Engineering, and Agriculture (Department of Landscape Design).

Each year men distinguished in architecture or in allied professions are invited to lecture before the College. These lecturers during the year 1914-15 were:

Mr. A. B. Trowbridge, B.Arch., Architect, New York City.

Mr. Wm. N. Taylor, A.B., Architecte Diplômé par le Gouvernement Français, New York City.

## PURPOSE OF THE COLLEGE

The purpose of the College is to give the best training possible within the time limits of a college course: to give the fundamentals at least of that broad cultural training universally recognized as essential to the success of men who must meet others of the most varied training and experience, and who must work with them as professional advisers on important problems involving not only questions of personal taste but also business problems of great magnitude; and, at the same time, to give a thorough training in the science and art of an exacting profession which on the one hand touches closely the engineering professions and on the other is itself one of the fine arts.

The usual college course as at present established is of four years duration. In recent years, however, technical standards and technical efficiency in practice have advanced so rapidly and so far, and the demand for broad education in addition to professional training is becoming so pronounced that a four year course is no longer adequate to meet the highest demands. It is therefore strongly advised that students plan whenever possible to spend five years or



even six, rather than four, in collegiate work, taking not only advanced professional studies but also additional work in the humanities.

### ADMISSION AND CLASSIFICATION

Applications for admission to the College of Architecture are entertained from the following classes:

1. Those who desire to begin as freshmen the regular four year course in architecture, or the four year construction course.
2. Those who have already attended some technical school or institution of collegiate rank and who desire to enter with advanced standing and to continue their technical studies in the College of Architecture.
3. Those who desire to register as special students not candidates for a degree, to take either the two year special course as outlined for draftsmen, or to elect work along special lines.
4. Those taking a five year course leading to the degree of Bachelor of Architecture.

For admission to longer courses—usually six years—leading to the degrees of Bachelor of Architecture and Bachelor of Arts, or Bachelor of Architecture and Civil Engineer, see page 6.

For admission to the Graduate School, see page 6.

### UNIVERSITY ENTRANCE SUBJECTS

The following are the subjects and the maximum and minimum amount of credit in each that may be offered.

A unit means five prepared recitations a week for one year of study, or 120 sixty minute hours. Two hours of laboratory work is considered equivalent to one hour of prepared recitation. Three hundred hours are required for one unit in drawing or in manual training; 150 hours for one-half unit in drawing.

1a. English A. ....	2 units	8c. Am. His., Civics $\frac{1}{2}$ unit or 1 unit
1b. English B. ....	1 unit	8d. English History $\frac{1}{2}$ unit or 1 unit
2a. First Year Greek. ....	1 unit	9a. Elementary Algebra. .... 1 unit
2b. Second Year Greek. ....	1 unit	9b. Intermed. Algebra. .... $\frac{1}{2}$ unit
2c. Third Year Greek. ....	1 unit	9c. Advanced Algebra. .... $\frac{1}{2}$ unit
3a. First Year Latin. ....	1 unit	9d. Plane Geometry. .... 1 unit
3b. Second Year Latin. ....	1 unit	9e. Solid Geometry. .... $\frac{1}{2}$ unit
3c. Third Year Latin. ....	1 unit	9f. Plane Trigonometry. .... $\frac{1}{2}$ unit
3d. Fourth Year Latin. ....	1 unit	9g. Spher. Trigonometry. .... $\frac{1}{2}$ unit
4a. First Year German. ....	1 unit	10. Physics. .... 1 unit
4b. Second Year German. ....	1 unit	11. Chemistry. .... 1 unit
4c. Third Year German. ....	1 unit	12. Phys. Geog. .... $\frac{1}{2}$ unit or 1 unit
5a. First Year French. ....	1 unit	13. Biology*. .... 1 unit
5b. Second Year French. ....	1 unit	14. Botany*. .... $\frac{1}{2}$ unit or 1 unit
5c. Third Year French. ....	1 unit	15. Zoology*. .... $\frac{1}{2}$ unit or 1 unit
6a. First Year Spanish. ....	1 unit	16. Agriculture (including home economics) † ... $\frac{1}{2}$ unit or 4 units
6b. Second Year Spanish. ....	1 unit	17. Drawing. .... $\frac{1}{2}$ unit or 1 unit
6c. Third Year Spanish. ....	1 unit	18. Manual Training. .... 1 unit
7a. First Year Italian. ....	1 unit	{ Any high school subject or subjects not already used** ... $\frac{1}{2}$ unit or 1 unit
7b. Second Year Italian. ....	1 unit	
7c. Third Year Italian. ....	1 unit	
8a. Ancient Hist. .... $\frac{1}{2}$ unit or 1 unit		
8b. Modern Hist. .... $\frac{1}{2}$ unit or 1 unit		

\*If Biology (1 unit) is offered, neither Botany ( $\frac{1}{2}$  unit) nor Zoology ( $\frac{1}{2}$  unit) may be counted.

\*\*May not be counted to make up the fifteen units under surplus entrance credit.

†Agriculture may not be counted for entrance to Arts and Sciences or to Law. An applicant may offer for admission to Agriculture not to exceed four units in vocational subjects under numbers 16, 18, and 19 combined.

### 1. Admission to the Freshman Class in the College of Architecture

All correspondence concerning admission to the freshman class should be addressed to the Registrar of Cornell University.

For admission to the four year course in Architecture, the applicant must be at least sixteen years of age (women, seventeen) and must offer fifteen entrance units which must include English 3, history 1, mathematics 4, \*French or \*German 3, and physics 1. The three remaining units may be chosen from the preceding list of entrance subjects, but the applicant is advised where feasible to offer one unit in chemistry and the other two in language or in history and may not offer more than one unit in entrance Agriculture.

### 2. Admission to Advanced Standing

All correspondence concerning admission to advanced standing should be addressed to the Registrar of Cornell University.

A student who, having already attended some technical school or institution of collegiate rank, desires advanced standing in any regular course in the College of Architecture of Cornell University, should file with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to advanced standing in the College of Architecture, along with an official certificate from the institution already attended, of his honorable dismissal, his entrance credits in detail, his terms of attendance, and the amount of work that he has completed, with a detailed statement of the courses pursued for which he desires credit at Cornell University. He should also send a catalogue of the institution, writing on it his name and marking the entrance requirements that he has satisfied and each subject that he has completed.

### 3. Admission as Special Students

All correspondence concerning the admission of special students should be addressed to the Dean of the College of Architecture.

Applicants may, without formal examination, be admitted to the two year special course in architecture, provided they give satisfactory evidence of ability to do the required work of the course and have neither been previously admitted to the University nor refused as candidates for admission. For admission to this two year special course, the applicant must be at least twenty-one years of age; he must have had a good high school training or its equivalent, including particularly a good working knowledge of plane geometry and of algebra through quadratic equations; and should be familiar with the details and proportions of the classic orders of architecture. He shall have had at least three years' experience in some good architect's office, or its equivalent, and shall submit with his application examples of his draftsmanship. Architectural drawings in particular are required, but it is to the applicant's advantage to submit any additional work that would tend to show his artistic ability or skill as a draftsman. The application should be accompanied by a certificate that the drawings submitted are the work of the applicant.

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\*For the architect, French is more generally useful than German. An applicant with Latin or Greek to offer in place of French or German may be admitted to the five year course without condition, or he may be admitted to the four year course on condition that before graduation he make up two units of French or German in Summer Session or outside of the University.



#### **4. Admission to the Five Year Course**

Students who meet the requirements for admission to the four year course except in respect to the advanced mathematics there required, may, by offering substitute units, be admitted to the five year course in the College of Architecture leading to the degree of Bachelor of Architecture.

#### **5. Six Year Course Leading to the Degrees of Bachelor of Architecture and Bachelor of Arts, or Bachelor of Architecture and Civil Engineer**

A student in the College of Arts and Sciences who has satisfied at least six terms of residence, and who has credit for at least ninety hours, may with the permission of the faculties concerned be registered both in the College of Arts and Sciences and in the College of Architecture. This provision enables a student who so desires, to obtain the degree of Bachelor of Arts at the end of four years, and the degree of Bachelor of Architecture at the end of six years.

By special arrangement between the colleges concerned, a student may in six years secure the degree of Bachelor of Architecture and the degree of Civil Engineer.

#### **Admission as Graduate Students**

All correspondence relating to graduate work should be addressed to the Dean of the Graduate School.

In all departments of the College of Architecture, work is arranged to meet the special needs of graduate students. Candidates for advanced degrees in architecture must be graduates of schools of equal standing with the College of Architecture, and their training in design or other subjects elected for graduate study must be equivalent to the training required in the same subjects by this College for the degree of Bachelor of Architecture.

#### **Office Work and Building Experience**

It is an indisputable fact that, other things being equal, men who have had practical experience either in architecture or in building are the ones who derive the greatest benefit from their work in the College of Architecture. For this reason students are urged to spend their summer vacations, so far as possible, as assistants in good offices, or on actual building operations.

#### **Scholarships and Prizes, etc.**

For detailed information concerning State scholarships and University undergraduate scholarships, which are open to students in architecture in common with other students in the University, see the General Circular of Information, pages 34 to 38.

A University fellowship, of the value of \$400 with free tuition, and three graduate scholarships giving free tuition, are awarded annually to graduate students in architecture.

In addition, Mr. Joseph Plaut, as an expression of his appreciation of our first president, Dr. Andrew Dickson White, has provided for a special Graduate Fellowship of five hundred dollars for the year 1915-16.



The Sands Memorial Medal is awarded for special excellence in design attained in individual problems at any time.

The Brown Memorial Medal is awarded each year to the two members of the graduating class who have made the best record in Design in their senior year.

The student medal of the American Institute of Architects is awarded to the member of the graduating class whose record is the best throughout the entire course and the person to whom the medal is awarded is invited to exhibit his work at the next annual convention of the Institute.

Through the Society of Beaux-Arts Architects numerous prizes are offered for excellence of work in design. These prizes are open to students in the College of Architecture who frequently compete for them with success and much distinction to themselves and to the College.

The Fuertes Memorial Prizes in Oratory, first prize \$100 and second prize \$20, are open to students in architecture on equal terms with students in engineering.

Through the generosity of an alumnus of the College fifty dollars in prizes is offered for the best work submitted in the Summer Competitions in Sketching or Painting, Photography, and in Measured Drawings. These competitions are open only to undergraduates of the College and the work must be done during the summer vacation without criticism or instruction.

Other prizes, sometimes of considerable value, are frequently offered to students by friends of the College for excellence in special lines of work.

Graduates of the College of Architecture are admitted without examination to the competitions for scholarships in the American Academy in Rome, and to the Paris Prize competition of the Society of Beaux-Arts Architects. These scholarships are awarded annually and each of them provides for two or more years of study in Europe with an annual stipend of \$1000 and other material advantages.

Graduates of the College are excused from the usual examinations, except those relating to practical experience, required for admission to the American Institute of Architects and for license in those states where a license or registration is required for the practice of architecture.

## REGULAR FOUR YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE

Freshman Year	No. of Course	1st Term	2d Term
Analytic Geometry and Calculus.....	8	3	3
Descriptive Geometry.....	9	3	—
History of Architecture.....	10	3	3
Elements of Architecture.....	11	2	4
Freehand Drawing.....	12	3	3
Shades and Shadows.....	13	1	—
Water Color Painting.....	14	—	2
Masonry Construction.....	15	—	2
Building Stones and Clay Products.....	30	2	—
Summer Reading (See page 15).....			

Sophomore Year		No. of Course	1st Term	2d Term
History of Architecture.....	20	3	—	—
Design .....	21	8	8	—
Drawing from the Antique.....	22	1	2	—
Adv. Water Color Painting.....	23	2	—	—
Perspective .....	24	—	1	—
Historic Ornament.....	25	—	2	—
Modeling .....	26	—	2	—
Mechanics .....	27	—	2	—
Stereotomy .....	28	1	—	—
Oral Expression.....	29	3	—	—
Summer Reading (See page 15).....				

Physical Training, three times a week, is required of all regular freshmen and sophomores. The men take the first year of this work in the Department of Military Science and Tactics and the second year either in that department or in the Department of Physical Culture as they may elect. The women take both years in the Department of Physical Culture.

Junior Year		No. of Course	1st Term	2d Term
History of Painting and Sculpture.....	30	1	1	—
Design .....	31	—	10	—
Design .....	31a	2	—	—
Drawing from the Antique.....	32	2	—	—
Fire-Resisting Construction.....	33	1	—	—
Planning of Domestic Buildings.....	34	2	—	—
Carpentry and Specifications.....	34a	2	—	—
Working Drawings.....	34b	4	—	—
Strength of Materials.....	35	3	—	—
Structural Design.....	35a	—	5	—
Heating, Plumbing, and Lighting.....	36	—	2	—

Senior Year (after 1915-16)		No. of Course	1st Term	2d Term
Modern Architecture.....	40	—	2	—
Design .....	41	10	8	—
Design .....	41a	—	4	—
Life Class.....	42	3	—	—
Elective .....		3	2	—

Senior Year (1915-16)		No. of Course	1st Term	2d Term
Modern Architecture.....	40	—	2	—
Design .....	41	10	8	—
Design .....	41a	—	4	—
Life Class.....	42	2	—	—
Seminary .....	43	1	1	—
Fire-Resisting Construction.....	44	1	—	—
Elective .....		3	—	—

#### FOUR YEAR CONSTRUCTION COURSE LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE

Freshman Year		No. of Course	1st Term	2d Term
Analytical Geometry and Calculus.....	8	3	3	—
Descriptive Geometry.....	9	3	—	—
History of Architecture.....	10	3	3	—
Elements of Architecture.....	11	2	4	—
Freehand Drawing.....	12	3	3	—
Shades and Shadows.....	13	1	—	—
Physics .....	2	—	5	—
Geology .....	30	2	—	—
Summer Reading (See page 15).....				



**Sophomore Year**

	No. of Course	1st Term	2d Term
Masonry Construction.....	15	—	2
Design .....	21	8	8
Perspective .....	24	—	1
Stereotomy .....	28	1	—
Mechanics (C.E.) .....	20	5	5
Physics .....	7	3	—
Heating, Plumbing, and Lighting.....	36	—	2
Summer Reading (See page 15).....			

Physical Training, three times a week is required of all regular freshmen and sophomores. The men take the first year of this work in the Department of Military Science and Tactics and the second year either in that department or in the Department of Physical Culture as they may elect. The women take both years in the Department of Physical Culture.

**Junior Year**

	No. of Course	1st Term	2d Term
History of Architecture.....	20	3	—
Antique, Water Color, or Modeling.....		2	—
Planning of Domestic Buildings.....	34	2	—
Carpentry and Specifications .....	34a	2	—
Working Drawings.....	34b	4	—
Bridges (C. E.).....	71	4	4
Materials Laboratory (C. E.).....	22	—	2
Materials of Construction (C. E.).....	25	—	3
Concrete Construction (C. E.).....	77	—	3
Modern Architecture.....	40	—	2
Oral Expression.....	29	—	3

**Senior Year**

	No. of Course	1st Term	2d Term
Design .....	31a	2	—
Design .....	31	—	10
Fire-Resisting Construction.....	33	1	—
Steel Buildings (C. E.).....	76	—	3
Not less than 16 hours from the following:			
Wood Technology (Forestry).....	8	—	2
Political Economy.....	51	3	3
Testing Materials (C. E.).....	27	3	—
Higher Structures (C. E.).....	73	3	or 3
Masonry Foundations (C. E.).....	74	3	or 3
Reinforced Concrete (C. E.).....	72	2	or 2
Cost Keeping and Management (C. E.).....	89	2	—
Specifications and Contracts (C. E.).....	90	2	or 2
Engineering Design (C. E.).....	91f	3	or 3
Engineering Problems (C. E.).....	29	—	2

**TWO YEAR SPECIAL COURSE IN ARCHITECTURE**

This course does not lead to a degree, but a certificate will be issued upon its satisfactory completion. Where students are prepared to do advanced work the course will be arranged, within the limits of the curriculum, to meet special cases.

**First Year**

	No. of Course	1st Term	2d Term
History of Architecture.....	10	3	3
Design .....	21	8	8
Freehand Drawing.....	12	3	3
Descriptive Geometry.....	9	3	—
Shades and Shadows.....	13	1	—
Perspective .....	24	—	1
Water Color Painting.....	14	—	2

	Second Year	No. of Course	1st Term	2d Term
History of Architecture.....		20	3	—
Design .....		41	10	8
Design .....		41a	—	4
Drawing from the Antique.....		22	1	—
Advanced Water Color Painting.....		23	2	—
Modeling in Clay.....		26	—	2
Modern Architecture.....		40	—	2

### FIVE YEAR AND SIX YEAR COURSES

In the arrangement of five year and six year courses, so much depends upon the preparation and special requirements of the student that it has been found best to arrange these courses to meet individual needs. In the main, however, the five year course for the degree of Bachelor of Architecture must include all of the work of the regular four year course or of the four year construction course, and further elective work in the College of Arts and Sciences or in Engineering; and the six year courses for two degrees must include three years of work in architecture and three years of work in the College of Arts and Sciences or in the College of Civil Engineering, arranged and completed to the satisfaction of the colleges concerned.



*L. Moore*

WATER COLOR SKETCH



## COURSES OF INSTRUCTION

1a. **Elementary Freehand Drawing.** Throughout the year, credit two hours a term. Assistant Professor CHAMBERLAIN and Mr. GUTSELL. M W, M F, or W F, 2-5, Franklin Hall.

1b. **Elementary Freehand Drawing.** Throughout the year, credit three hours a term. Assistant Professor CHAMBERLAIN and Mr. GUTSELL. M W F, 2-5, Franklin Hall.

2a. **Advanced Freehand Drawing.** Throughout the year, credit two hours a term. Prerequisite course 1b or its equivalent. Assistant Professor CHAMBERLAIN and Mr. GUTSELL. M W, M F, or W F, 2-5, Franklin Hall.

2b. **Advanced Freehand Drawing.** Throughout the year, credit three hours a term. Prerequisite course 1b or its equivalent. Assistant Professor CHAMBERLAIN and Mr. GUTSELL. M W F, 2-5, Franklin Hall.

Note—The above courses in drawing are open to all students in the University under such conditions as their respective faculties may prescribe.

8. **Analytic Geometry and Calculus.** Throughout the year, credit three hours a term. Given in the College of Arts and Sciences. White Hall. Section 1, M W F at 8; section 2, T Th S at 8.

9. **Descriptive Geometry.** First term, credit three hours. Prerequisite Solid Geometry. Professor YOUNG and Mr. BAXTER. Franklin Hall. The fundamental problems of descriptive geometry are studied and applied in the solution of problems in architecture. Lectures and drawing nine hours a week.

10. **History of Architecture.** Throughout the year, credit three hours a term. Professor PHELPS. White Hall 33. First term: Egyptian, Greek, Roman, and Byzantine architecture. Second term: Romanesque and Gothic architecture. Lectures with assigned readings, sketches, and examinations.

11. **Elements of Architecture.** Throughout the year, credit two hours first term and four hours second term. Mr. URBAND. White Hall. The classic orders of architecture and elementary studies in composition, with drawings rendered in india ink and in water color. Three hours a week for each hour of credit.

12. **Freehand Drawing.** Throughout the year, credit three hours a term. Professor BRAUNER and Mr. GUTSELL. Franklin Hall. Pencil and charcoal drawing from the cast, and freehand perspective. Nine hours a week.

13. **Shades and Shadows.** Beginning about Nov. 15 and continuing through the term, credit one hour. This course must follow or be accompanied by descriptive geometry. Professor MARTIN and Mr. URBAND. White Hall. Lectures and drawing.

14. **Water Color Painting.** Second term, credit two hours. Prerequisite course 12. Assistant Professor MIDJO and Mr. GUTSELL. Franklin Hall. Painting from still life groups and out-door sketching. Six hours a week.

15. **Masonry Construction.** Second term, credit two hours. Professor MARTIN. White Hall. Lectures and recitations, supplemented by drawing and by inspection of actual work.

20. **History of Architecture.** First term, credit three hours. Prerequisite course 10. Professor PHELPS. White Hall 33. Architecture of the Renaissance and to the beginning of the nineteenth century in the principal European countries. Lectures with assigned readings, sketches, and examinations.

21. **Design.** Throughout the year, credit eight hours a term. Prerequisite courses 11 and 13. Assistant Professor BURNHAM. White Hall. A series of problems in architectural design, composition, planning, studies in detail, rendering, etc., requiring about twenty-four hours a week.

22. **Drawing from the Antique.** Throughout the year, credit one hour first term and two hours second term. Prerequisite course 12. Professor BRAUNER and Assistant Professors MIDJO and CHAMBERLAIN. Franklin Hall. Work from the cast in charcoal and pastel. Three hours a week drawing for each hour credit (see course 23).

23. **Advanced Water Color Painting.** First term, credit two hours. Prerequisite course 14. Assistant Professor MIDJO and Mr. GUTSELL. Franklin Hall. This course is given in conjunction with course 22 and will require nine hours a week for two-thirds of the term, while course 22 will require nine hours a week for one-third of the term. Given with special reference to architectural rendering.

24. **Perspective.** Second term, credit one hour. Prerequisite courses 9 and 11. Professor MARTIN and Mr. BAXTER. White Hall. Lectures and drawing.

25. **Historic Ornament.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS. White Hall 33. Some of the great historic styles of decoration will be analyzed and studied in detail, and the development of furniture, stained glass, and other minor arts will be briefly outlined. Lectures and examinations.

26. **Modeling.** Second term, credit two hours. Assistant Professor MIDJO and Mr. GUTSELL. Franklin Hall. Six hours a week modeling in clay from relief ornament and sculpture, and modeling original designs in relief and in the round.

27. **Mechanics.** Second term, credit two hours. Professor YOUNG. A brief study of the principles of analytic and graphic statics with reference to their application in course 35. Recitations.

28. **Stereotomy.** First term, credit one hour. Prerequisite course 9. Professor MARTIN and Mr. BAXTER. Advanced projective drawing given with special reference to the proper working out of the more complex architectural constructions, such as stone vaulting, stone stairs, etc.

29. **Oral Expression.** First term, credit three hours. Given in the College of Arts and Sciences by Professor WINANS. While other forms of address will not be ignored, the emphasis in this course will be upon training for the clear and convincing interpretation of drawings or plans for important projects as



they might be presented before building committees, city councils, civic societies, etc. Problems for discussion will be taken from the daily work of the students.

30. (A. and S.) **Building Stones and Clay Products.** First term, credit two hours. Given in the College of Arts and Sciences by Professor RIES and Messrs. HOOK and WOLCOTT. Lectures, T, 9. Laboratory either W or F, 2-4.30. McGraw Hall. The occurrence, distribution, and uses of building stones, and the use of clay for structural products.

30. **History of Painting and Sculpture.** Throughout the year, credit one hour a term. Professor PHELPS. White Hall 33. A brief survey of the history of Greek sculpture and of Italian painting.

30a. **History of Art in Italy.** Throughout the year, credit two hours a term. Mr. GUTSELL. White Hall 33. The condition of the arts on the decline of Roman civilization. The revival of the arts of design in the thirteenth century. The development of painting and sculpture until the sixteenth century and a brief review of their decline. Given in 1915-16 and in alternate years following.

30b. **Art North of the Alps.** Throughout the year, credit two hours a term. Mr. GUTSELL. A survey of the beginnings of art in the Germanic communities. Painting, engraving, and woodcutting. The Flemish and Dutch masters of the sixteenth and seventeenth centuries. Courses 30a and 30b are given in alternate years. Will be given in 1916-17 and in alternate years following.

31. **Design.** Second term, credit ten hours. Prerequisite course 21. Professor BOSSANGE. White Hall. This course continues the work of course 21 with more advanced problems in architectural design, composition, and planning. About thirty hours a week.

31a. **Design.** First term, credit two hours. Prerequisite course 21. Professor BOSSANGE. White Hall. A series of short time problems in the planning of buildings and groups of buildings. Emphasis is placed on a sound solution of the problems rather than on presentation. Six hours a week drawing and criticism.

32. **Drawing from the Antique.** First term, credit two hours. Prerequisite course 22. Professor BRAUNER and Assistant Professor MIDJO. Franklin Hall. The work consists of drawing from antique sculpture and from life. Six hours a week.

33. **Fire Resisting Construction.** Second term, credit one hour. Professor MARTIN. White Hall 33. A study of fire prevention and fire protection in the design, construction, and equipment of buildings. Lectures and reading.

34. **Planning of Domestic Buildings.** First term, credit two hours. Prerequisite course 21. Professor BOSSANGE. White Hall. Lectures and drawing about eighteen hours a week during the early part of the term. The work will include a systematic and analytical study of house planning with special reference to American conditions.

34a. **Carpentry and Specifications.** First term, credit two hours. Professor MARTIN. White Hall 33. Lectures and reading.

34b. **Working Drawings.** Latter part of the first term, credit four hours. Prerequisite course 34. Professors MARTIN and BOSSANGE. Course 34b continues the work of course 34 by the study of ordinary methods and details of construction, with the preparation of one-quarter inch scale working drawings and typical details for a simple building designed by the student himself under such limiting conditions as a client would be likely to impose.

35. **Strength of Materials.** First term, credit three hours. Prerequisite course 27. Professor YOUNG and Mr. BAXTER. Franklin Hall. A brief study of the effects of loading in producing stress and deformation. The class room work is supplemented by problems relating to beams, columns, masonry, and very briefly to reinforced concrete. Graphic statics is continued from course 27 and applied to the solution of problems. Recitations and lectures.

35a. **Structural Design.** Second term, credit five hours. Prerequisite courses 27 and 35. Professor YOUNG and Mr. BAXTER. Franklin Hall. The principles studied in courses 27 and 35 are applied to the structural design of typical architectural problems. Lectures and reports.

36. **Heating, Plumbing, and Lighting.** Second term, credit two hours. Professor MARTIN. White Hall 33. A brief study of the principles of heating, ventilation, plumbing, and lighting. Lectures and practical problems.

40. **Modern Architecture.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS. White Hall 33. Nineteenth century architecture in the principal European countries, and colonial and more recent work in the United States.

41. **Design.** Throughout the year, credit ten hours first term, and eight hours second term. Prerequisite courses 21 and 31. Acting Professor KAHN. White Hall. This course is a continuation of courses 21, 31, and 31a with advanced problems in architectural design, composition, planning, etc. Thirty to thirty-six hours a week.

41a. **Design.** Second term, credit four hours. Acting Professor KAHN. White Hall. Prerequisite course 41. A continuation of course 41 consisting of a single major problem studied and worked up in detail as a thesis problem.

42. **Life Class.** Throughout the year, credit three hours first term and two hours second term. First term required, second term elective. Professor BRAUNER. Franklin Hall. Drawing from the nude model. Three hours a week for each hour of credit.

43a. **Historical Seminary.** Throughout the year, credit one hour a term. Prerequisite courses 10 and 20. Professor PHELPS. White Hall. Investigation of assigned topics in the history of architecture; review of books, abstracts, and discussions of current periodical literature.

50. **History of Architecture.** Throughout the year, credit one hour a term. Professor PHELPS. White Hall 33. A brief course in the history and appreciation of ancient and medieval architecture designed for the non-technical student. Illustrated lectures with assigned readings and examinations.



50a. **History of Renaissance Architecture.** First term, credit one hour. Prerequisite course 50 or course 10. Professor PHELPS. White Hall 33. A brief course in the history and appreciation of Renaissance architecture designed for the non-technical student. Illustrated lectures with assigned readings and examinations. (Not given in 1915-16.)

**Summer Reading.** In addition to the regular studies of the freshman and sophomore years the students are required to read, during the summer recess, books of their own selection from grouped lists. The book lists are prepared and one or more introductory lectures given each year, just before the summer vacation, by one of the professors in the Department of English in the College of Arts and Sciences.

**Courses in Engineering.** In the Four Year Construction Course the following subjects not therein described are indicated either as required or as elective: Mechanics 20, Bridges 71, Materials Laboratory 22, Materials of Construction 25, Concrete Construction 77, Steel Buildings 76, Testing Materials 27, Higher Structures 73, Masonry Foundations 74, Reinforced Concrete 72, Cost Keeping and management 89, Specifications and contracts 90, Engineering Design 91f, and Engineering Problems 29. These subjects are given in the College of Civil Engineering and are described in detail in the Announcement of the College of Civil Engineering which may be had upon application to the Secretary of Cornell University, Ithaca, New York.

### BUILDINGS, EQUIPMENT, ETC.

The College occupies the entire third and fourth floors of White Hall, and the top floor and part of the basement of Franklin Hall immediately adjacent. The main offices, library, lecture and exhibition rooms, etc., are on the third floor of White Hall, while the entire fourth floor consists of a suite of three drafting rooms opening together in such a way as to make practically one great room approximately forty feet wide and one hundred and fifty-six feet long. These rooms, while making no pretense to architectural beauty, having been designed for other use when the University was still young, are open, airy, and comfortable at all times, and above all are thoroughly well lighted for both day and night work, a matter of supreme importance in work requiring such constant use of the eyes. In these rooms, which are open from 8 a. m. to 10.30 p. m., each student has his own place to which he may come at any time. Here all students in the College from freshmen to graduates work together, and from the beginning the younger men are inspired by the work of the older ones who exercise a most wholesome influence over them.

The special reference library, only a step from the drafting rooms and offices, is one of the most complete of its kind; and all books, photographs, etc., are directly accessible to the students who have full freedom to go directly to the shelves and to take books and photographs to the drafting rooms with the least possible formality, a privilege of inestimable value in their work. The shelves and cases hold some thousands of photographs, the current numbers of more than thirty technical periodicals, and a large collection of the most important books in the field of architecture, besides more than eleven thousand lantern slides for use in the lecture courses.

For reference and inspiration in the technique of drawing and rendering in architectural design, there is a fine collection of rendered drawings made by the recognized masters in the art, and a very large and growing collection of selected drawings made by the former students in the College.

The entire upper floor of Franklin Hall, about seven thousand five hundred square feet of floor space, is devoted to the work in free-hand drawing, life class, modeling, still life painting, etc. The studios here are lighted from the north through large mansard skylights that give an abundance of steady even light throughout the day, and here again the students work together in the same spirit of freedom and friendly competition that characterizes the work in design and that sets a standard not obtainable in any other way. The equipment for this work is of the best and consists in the main of a very large and complete collection of casts from the best periods of the sculptor's art, and an excellent collection of pottery, faience, textiles, etc.

One of the most stimulating elements in the scheme of instruction is the maintenance throughout the year of a practically continuous series of exhibitions in the two large exhibition rooms in White Hall. Here the work of every student in design must go on public exhibition as soon as a problem is completed and must remain on exhibition until the space is required for the next series of problems. Thus each student may, in addition to his personal experience, gain the largest possible measure of profit from the success or failure of his fellows. As a means of keeping the students in touch with kindred interests in the world at large, several special exhibitions are held each year, varying in scope and character, but consisting usually of drawings from the offices of distinguished architects, drawings from other schools of architecture, sketches, paintings, etc.

In any profession involving so much of sentiment and feeling as does architecture, spirit and environment are important influences. The student must begin with at least a certain amount of enthusiasm, breadth of view, and an innate feeling for the beautiful. Given these qualities it remains for the college to supply as far as it may the intellectual, moral, and esthetic training requisite for the practice of architecture. This it does partly by means of the equipment already described, but mainly through the quality and character of the instruction. Throughout the course, the instruction is personal elbow-to-elbow work that calls forth the best that there is in both instructor and pupil. The aim is always to develop the personality of the pupil, to make of him a creative artist, master of his own powers, rather than merely a clever draftsman reproducing the ideas of one greater than himself. Add to this the fact that the natural environment of the University, with its hills, gorges, and lake, is one of the most beautiful anywhere in the world and conditions for wholesome, inspiring development are well nigh ideal.





FREEHAND DRAWING STUDIO



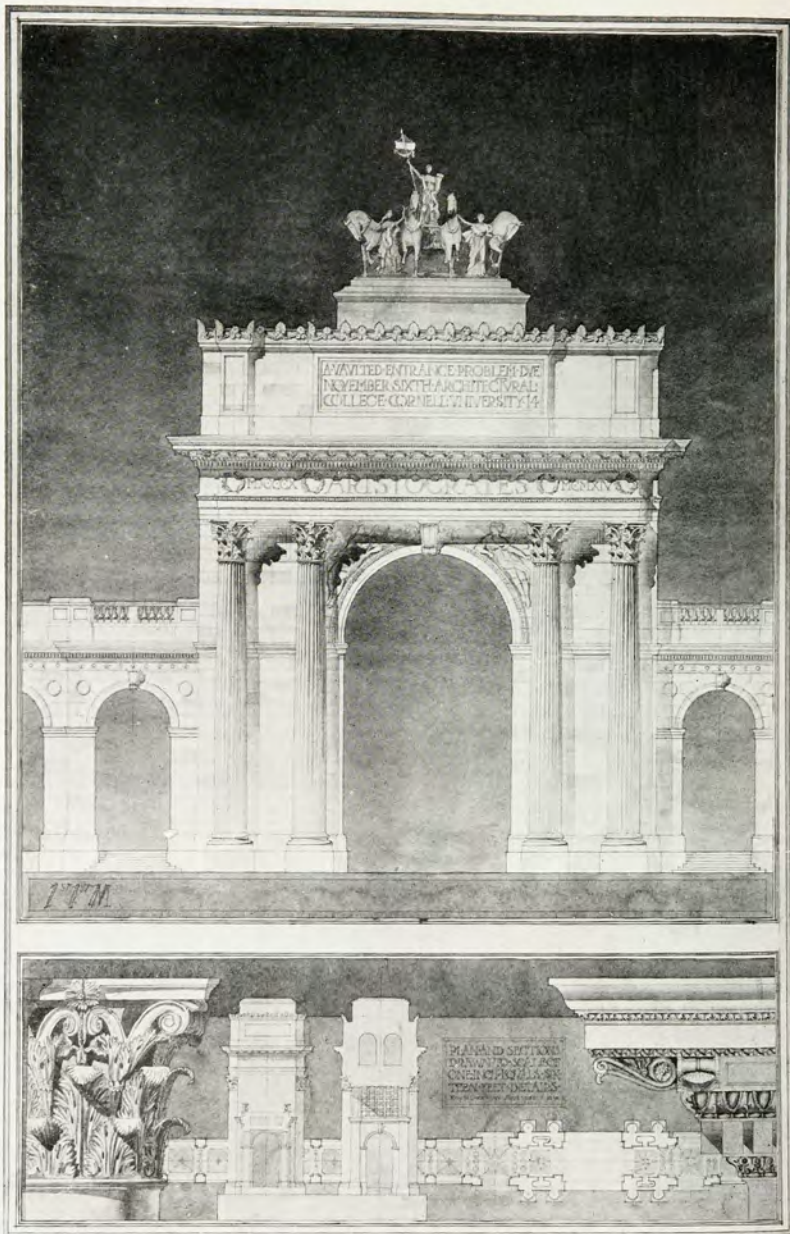
MAIN DRAWING ROOM





FRESHMAN DRAWING IN ELEMENTS OF ARCHITECTURE

*C. W. Dunbar*



R. W. Cheeseman

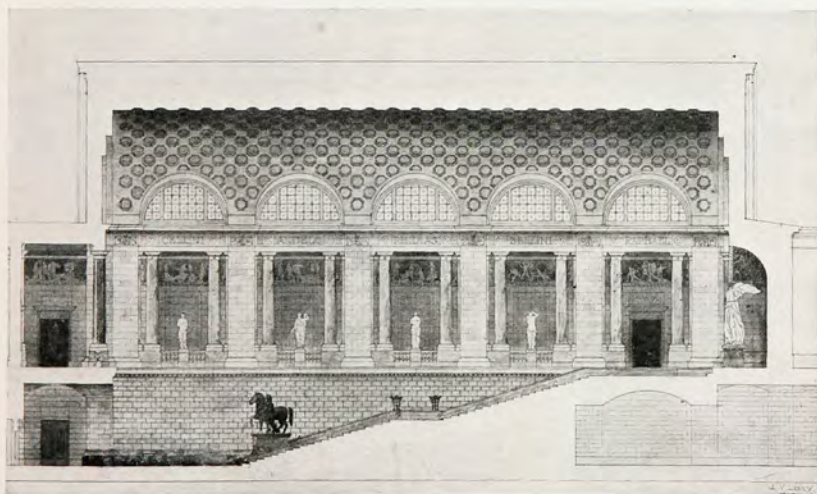
SOPHOMORE DESIGN—A VAULTED ENTRANCE





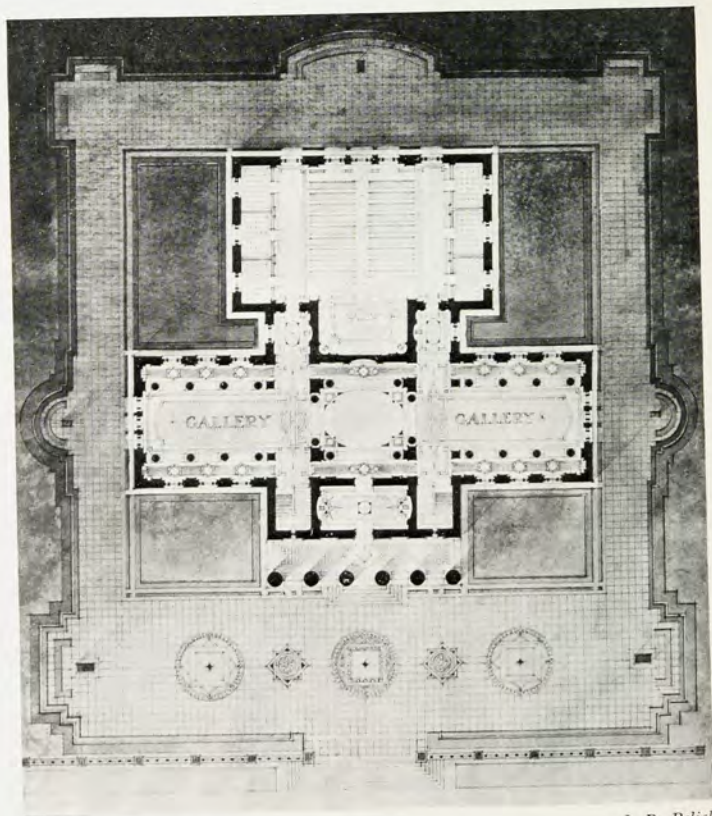
SOPHOMORE DESIGN—A SCHOOL OF ARCHITECTURE

*L. Moore*



SOPHOMORE DESIGN—A MONUMENTAL STAIRWAY

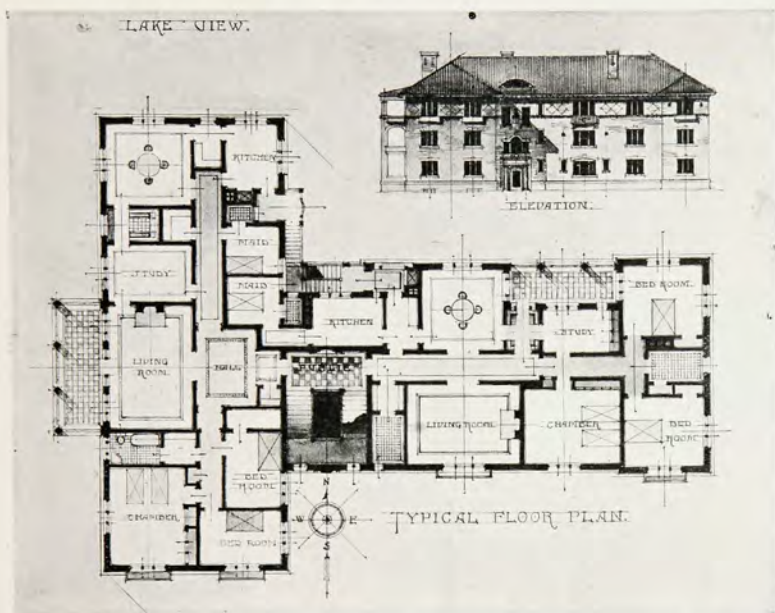
*L. V. Lacy*



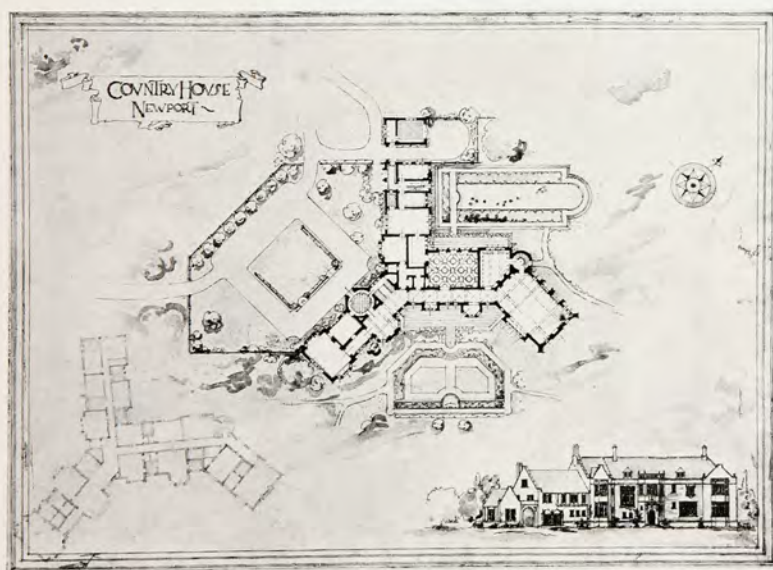
*J. F. Pelich*

JUNIOR DESIGN—A STATE HISTORICAL SOCIETY BUILDING



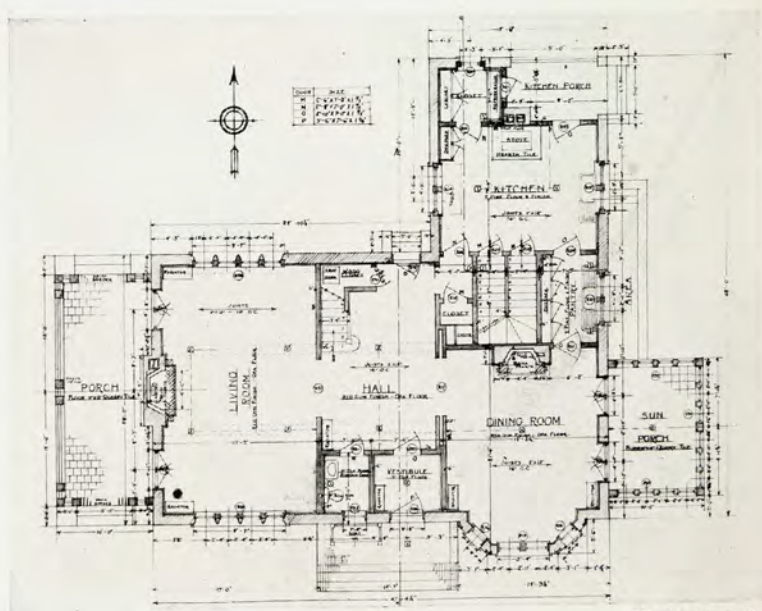


AN APARTMENT HOUSE

*J. M. Hurd*

A COUNTRY HOUSE—PLANNING OF DOMESTIC BUILDINGS

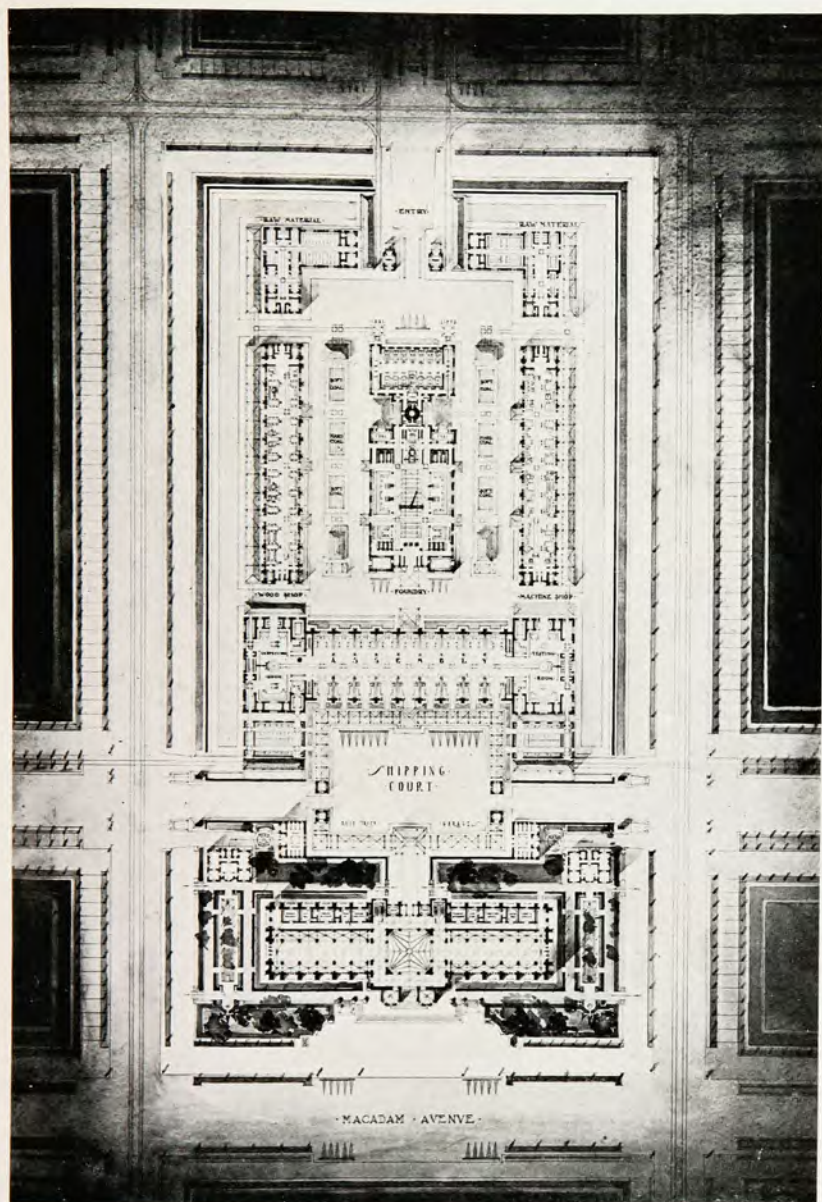
*E. W. Beck*



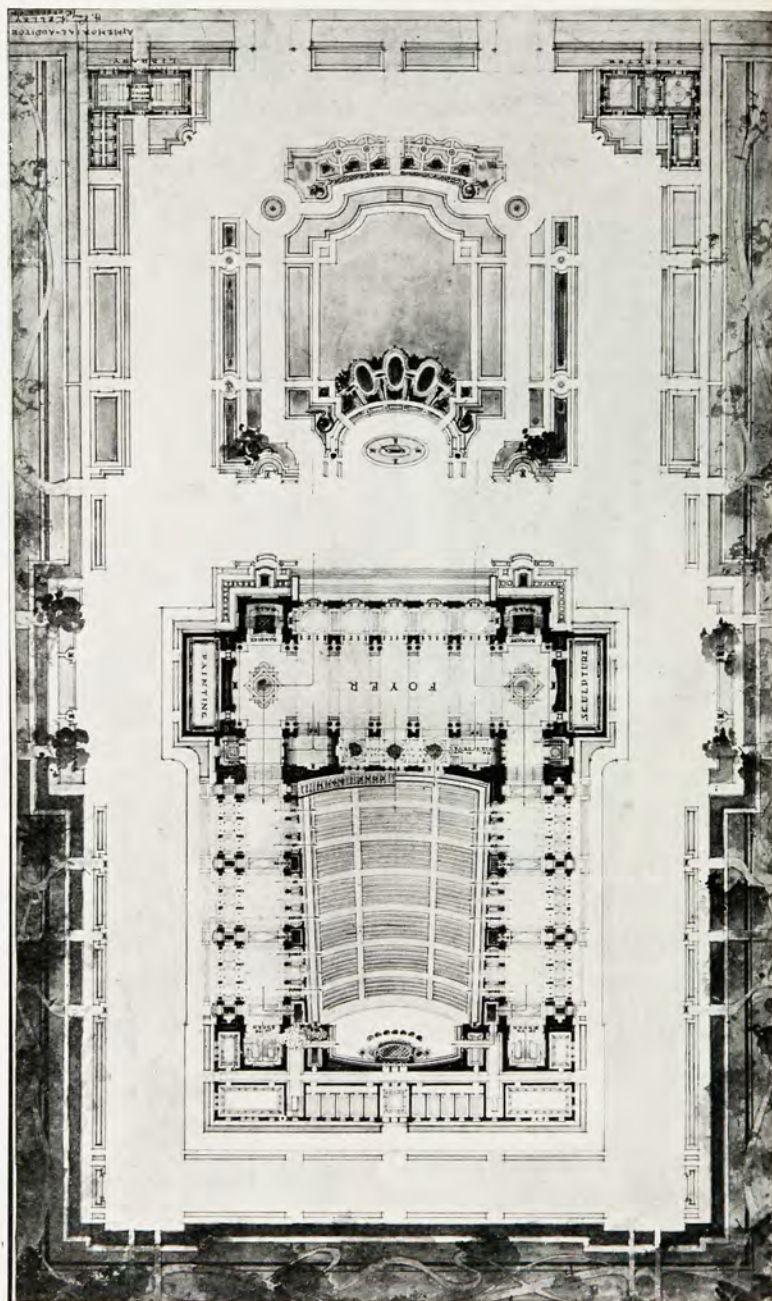
W. M. Braziell

JUNIOR CONSTRUCTION—COURSE IN WORKING DRAWINGS



*G. L. Kaufman*

SENIOR DESIGN--A PLANT FOR THE MANUFACTURE OF ARMS



SENIOR DESIGN—A MEMORIAL AUDITORIUM

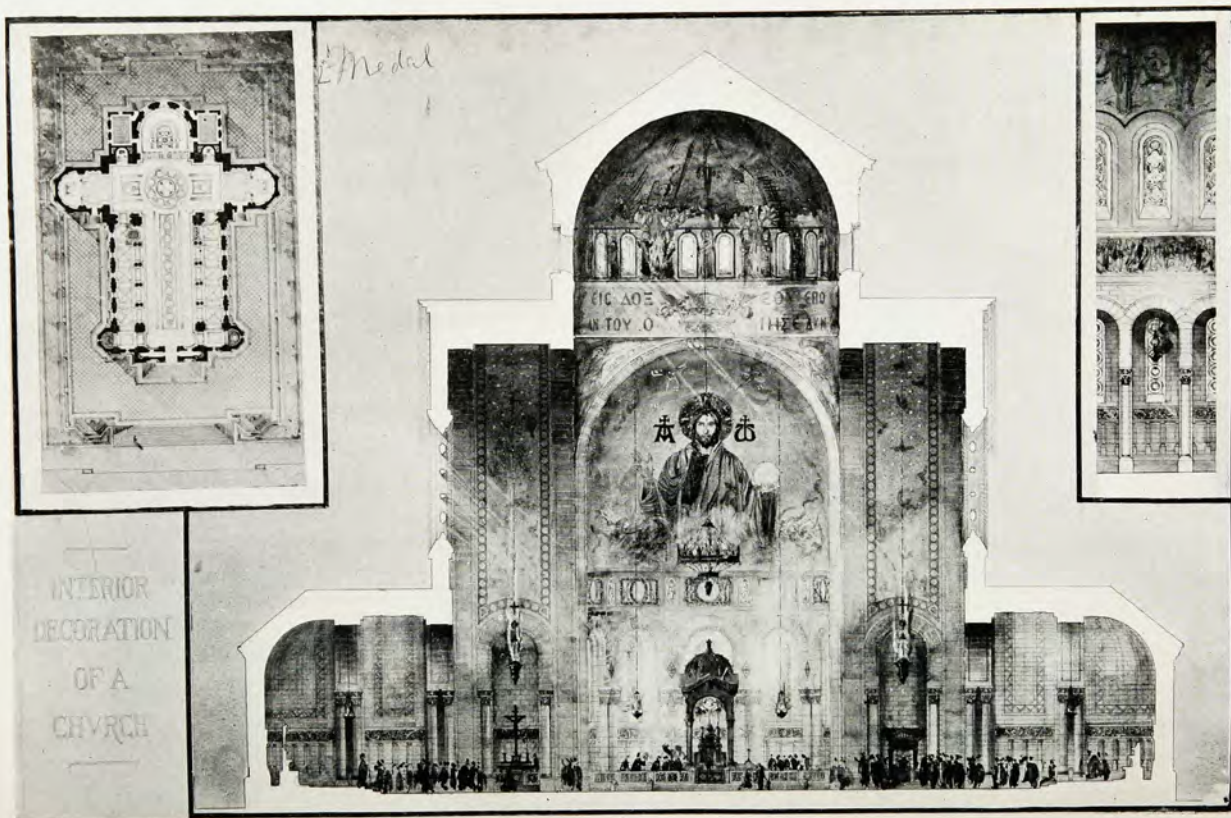
*H. R. Kelley*





SENIOR DESIGN—A MEMORIAL AUDITORIUM

*H. R. Kelley*





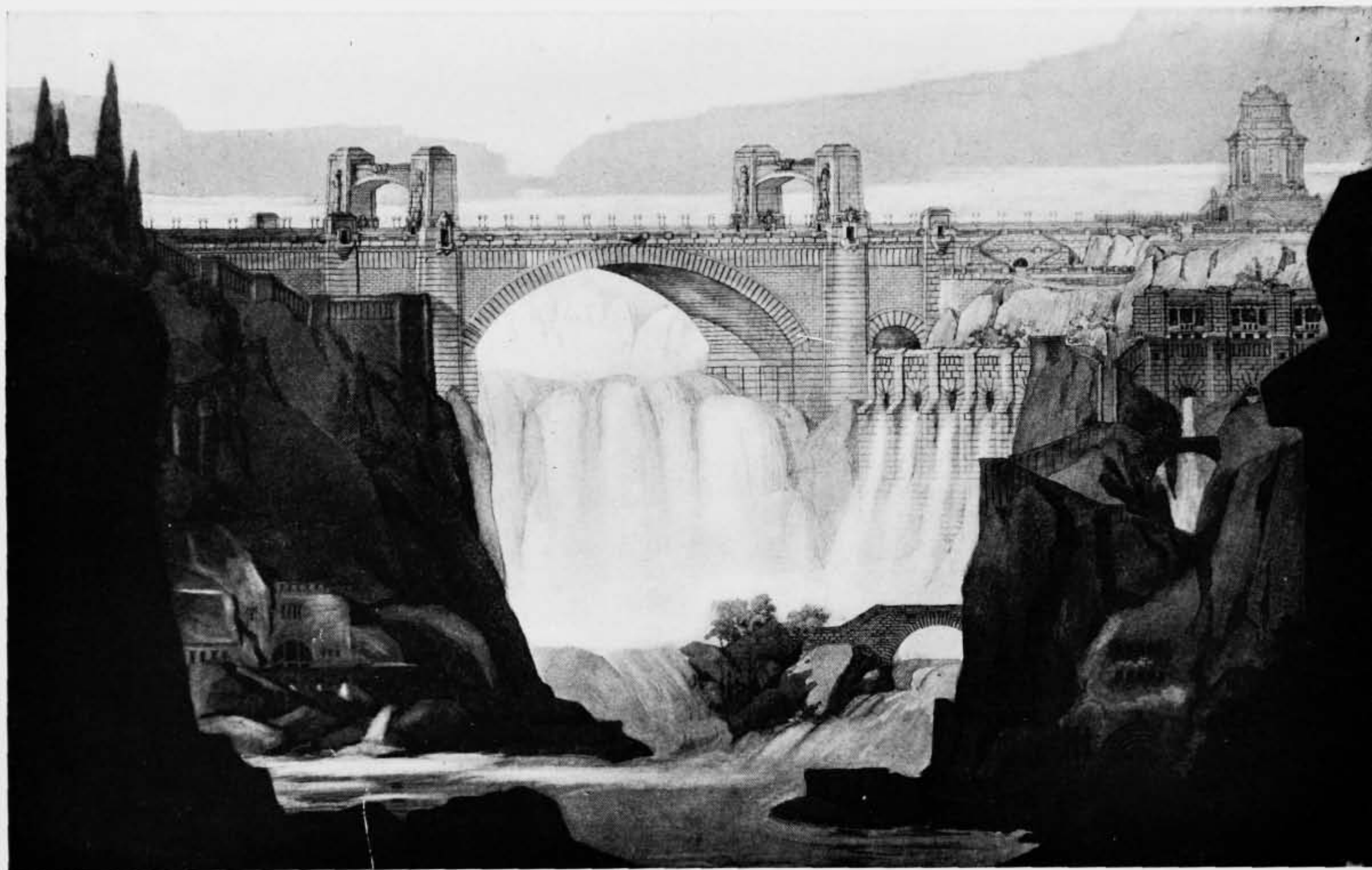


R. M. Kennedy



R. M. Kennedy

SENIOR DESIGN—THREE DAY SKETCH PROBLEMS

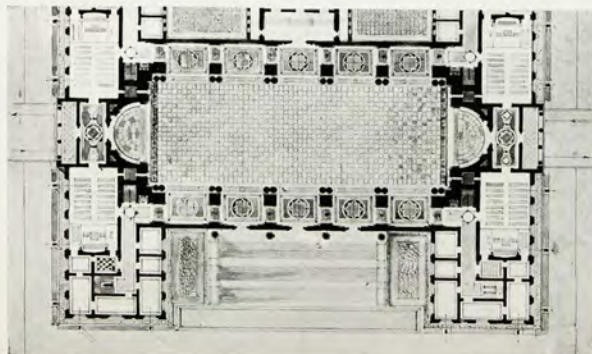


SENIOR DESIGN—A MONUMENTAL BRIDGE AND POWER STATION  
(Awarded New York Municipal Art Society Prize)

*G. L. Kaufman*



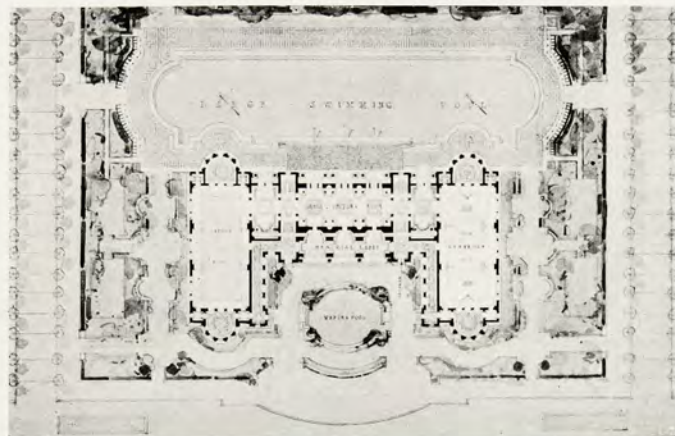
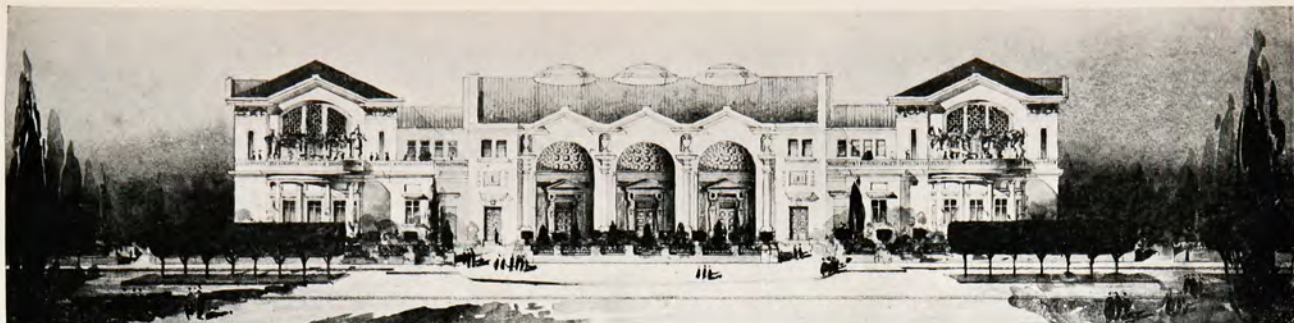




*H. S. Kirchberger*

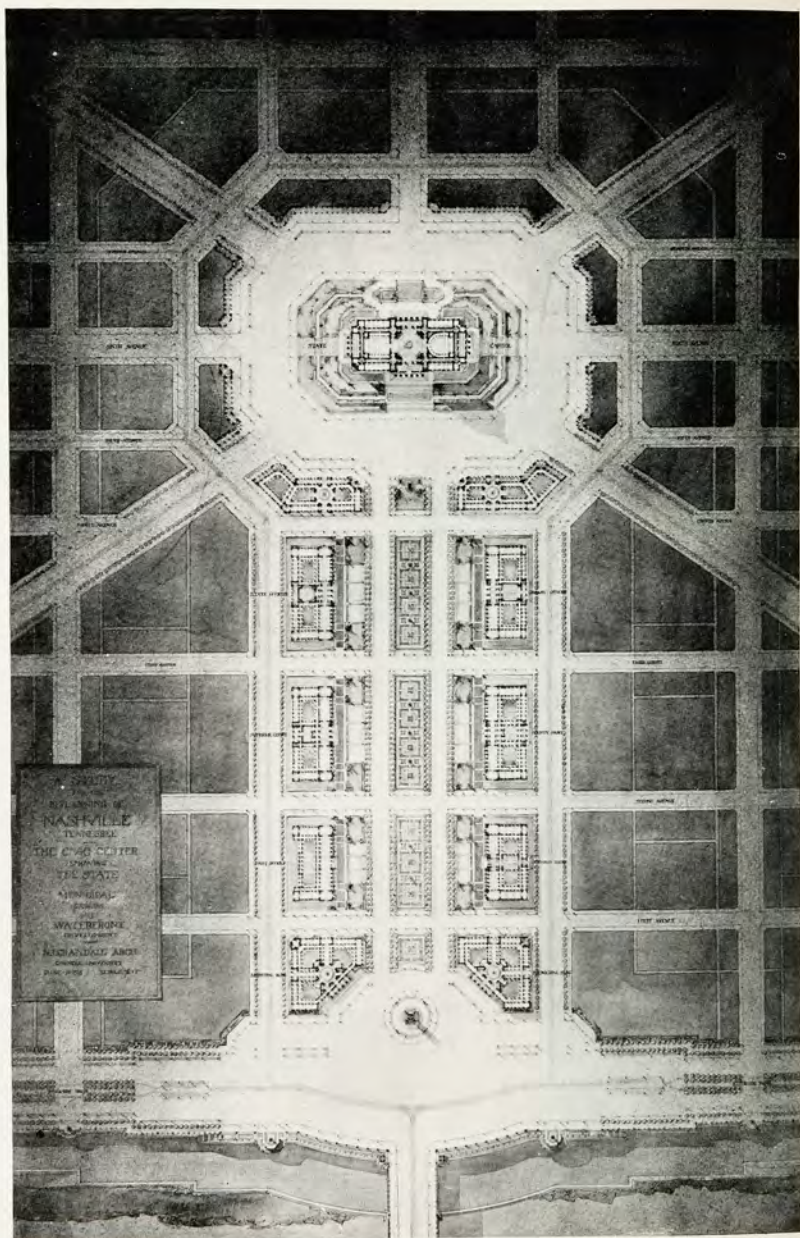
SENIOR DESIGN—THE VESTIBULE OF A COURT HOUSE





*R. L. Kaiper*

SENIOR DESIGN—A PUBLIC BATH AND RECREATION BUILDING



GRADUATE DESIGN—A CIVIC CENTER

N. I. Crandall



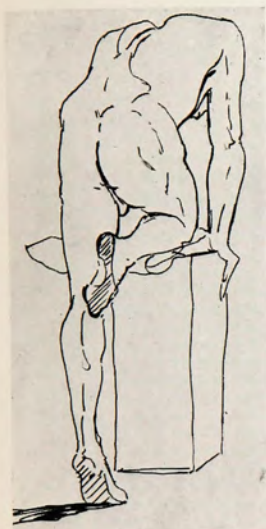


GRADUATE DESIGN—A CIVIC CENTER IN A CAPITOL CITY

*N. I. Crandall*

*R. F. Fuller**M. S. Diamond**F. C. VanDusen**R. H. McNaughton*





*H. W. Nolker*



*J. L. Baldrige*

TEN MINUTE SKETCHES FROM LIFE



DRAWING FROM LIFE

*F. L. Bisdee*









## OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

Issued at Ithaca, New York, monthly from July to November inclusive, and semi-monthly from December to June inclusive.

[Entered as second-class matter, August 31, 1910, at the post office at Ithaca, New York, under the Act of July 16, 1894.]

These publications include

The Annual Register (for the year 1914-15, published January 15, 1915), price 50 cents.

Catalogue Number for 1913-14 (containing lists of officers and students), price 25 cents.

Book of Views, price 25 cents.

Directory of Faculty and Students, Second Term, 1914-15, price 10 cents, and the following informational publications, any one of which will be sent gratis and post free on request. The date of the last edition of each publication is given after the title.

General Circular of Information for Prospective Students, January 1, 1915.

Announcement of the College of Arts and Sciences, May 1, 1915.

Announcement of the Department of Chemistry, May 15, 1915.

Announcement of Sibley College of Mechanical Engineering and the Mechanic Arts, February 1, 1915.

Announcement of the College of Civil Engineering, March 1, 1915.

Announcement of the College of Law, June 1, 1915.

Announcement of the College of Architecture, August 1, 1915.

Announcement of the New York State College of Agriculture, July 1, 1915.

Announcement of the Winter Courses in the College of Agriculture, June 15, 1914.

Announcement of the Summer Term in Agriculture, April 15, 1915.

Announcement of the New York State Veterinary College, June 15, 1915.

Announcement of the Graduate School, February 15, 1915.

Announcement of the Summer Session, April 1, 1915.

Annual Report of the President, October 1, 1914.

Pamphlets on prizes, samples of entrance and scholarship examination papers, special departmental announcements, etc.

Announcement of the Medical College may be procured by writing to the Cornell University Medical College, Ithaca, New York.

Correspondence concerning the publications of the University should be addressed to

The Secretary of Cornell University,  
Ithaca, New York.